

20" Random Rock 5 Cone Hole Opener Performance Update

Location: Rome and Chickamauga,
GA, Eastaboga, AL

Operator: US HDD contractor

Drill: Vermeer D150X300

Challenge: Drilling different length
road and river crossings

Geology: Hard fractured
Limestone 15-20K psi
comp strength,
Sandstone, Shale & Clay



Features/Benefits:

1. Patented Random[™] cutting structure provides more effective use of applied weight.
2. Specifically designed for the toughest drilling conditions. One cone style for any position.
3. Compensated Lubrication System
4. Unique locating system provides truer cutter positioning
5. Improved wall clearance for reduced shirrtail wear
6. Improved shirrtail protection – Hardfacing and TCI Inserts
7. 5 cone reamer ensures SMOOTH running in difficult drilling conditions

Result:

- Successfully reamed each crossing.
- Total of 160 Hours and 4400 feet for a Penetration Rate of 27+ ft/hr.
- Cutting structure is virtually untouched and the bearings are effective. The Reamer will be used on another job.
- Estimated to have saved the contractor at least two days in reaming.